

### ABSTRACT

5 Compositions, methods and kits for purifying and clarifying and/or nitrifying contaminated  
drinking water and which comprise a primary coagulant material, a microbiocidal disinfectant  
and an oxidant system. Highly preferred compositions also contain one or more of a bridging  
floculent material, the levels and ratios of coagulant to floculent preferably falling within  
certain ranges, a cationic coagulant aid, especially chitosan, a water-soluble alkali, a water-  
insoluble silicate, and a food additive or nutrient source. The purified water remains free of  
10 discoloration for extended periods of storage.